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Dusset, L.A. 25(2)

PHASE I BOOK EXPLOITATION

SOV/2564

Akademiya nauk SSSR. Institut mashinovedeniya. Seminar po teorii mashin i mekhanizmov

Trudy, tom 18, vyp. 69 (Transactions of the Institute of Mechanical Engineering, Academy of Sciences, USSR. Seminar on the Theory of Machinery and Mechanisms, Vol 18, No. 69) Moscow, Izd-vo AN SSSR, 1958. 69 p. Errata slip inserted. 2,500 copies printed.

Ed. of Publishing House: V.R. Beylin; Tech. Ed.: N.F. Yegorova; Editorial Board: I.I. Artobolevskiy, Academician (Resp. Ed.); G.G. Baranov, Doctor of Technical Sciences, Professor; V.A. Gavrilenko, Doctor of Technical Sciences, Professor; V.A. Zinov'yev, Doctor of Technical Sciences, Professor; A.G. Kobrinskiy, Doctor of Technical Sciences; N.I. Levitskiy, Doctor of Technical Sciences, Professor; N. P. Rayevskiy, Candidate of Technical Sciences; L.N. Reshetov, Doctor of Technical Sciences, Professor; and M.A. Skuridin, Doctor of Technical Sciences, Professor.

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SOV/2564 Transactions of the Institute (Cont.) PURPOSE: This book is intended for engineers interested in the theory of machinery and mechanisms. COVERAGE: This collection of scientific papers deals with the synthesis and analysis of types of linkage, an investigation of vibratory mechanisms, and methods of calculating the nonunformity of tape movement in tape-feeding mechanisms of memory units. References follow several of the articles. TABLE OF CONTENTS: 3 Preface Artobolevskiy, I.I. [Academician]. A Note on Some New 5 Mechanisms The author discusses the theory of a new universal "konikograf" (a device for drawing conic sections), tne application of the inversion principle in the construction of a straight-line mechanism, and the exact-translation mechanisms. theory of Card 2/4

Transactions of the Institute (Cont.) SOV/2564		
Gazarov, A.T. [Candidate of Technical Sciences]. Problem of Synthesizing Four-bar Linkages With Maximum Angles of Transmission The author discusses the problem of designing a four-bar linkage with a given velocity ratio and a maximum angle of transmission.	13	
Levitskiy, N.I. [Doctor of Technical Sciences]. Synthesis of Link Mechanisms The author presents a simplified and accurate method of synthesizing types of linkages.	18	
Bessonov, A.P. [Candidate of Technical Sciences]. Investigating the Motion of a Vibratory Mechanism With a Weak Spring as a System With Two Degrees of Freedom The author investigates the motion of a vibratory mechanism with a small restoring force.	34	
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Transactions of the Institute (Cont.)

SOV/2564

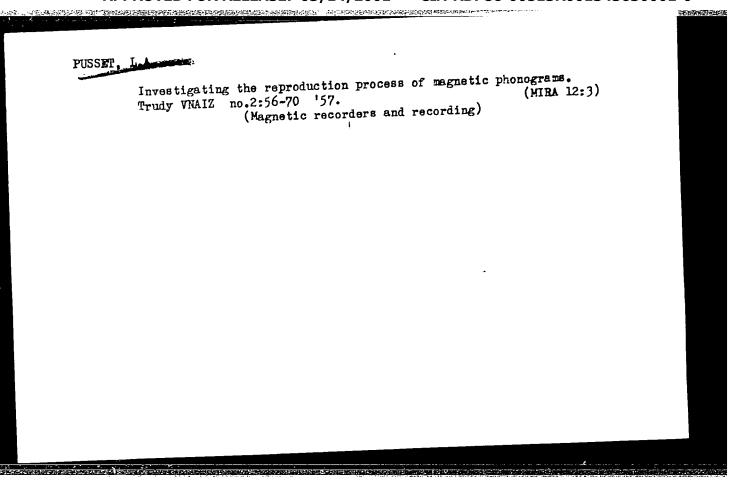
Pusset, L.A. [Candidate of Technical Sciences]. Methods of Calculating the Nonuniformity of Tape Movement in Tapefeeding Mechanisms

52

AVAILABLE: Library of Congress

Card 4/4

GO/mg 12-7-59



9(z)

SOV/112-59-4-8185

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 4, p 257 (USSR)

AUTHOR: Pusset, L. A.

TITLE: Elements of the Theory of the Tape Winding Mechanism of a Three-Motor Tape Recorder

PERIODICAL: Tr. Vses. n.-i. in-ta zvukozapisi, 1957, Nr 1, pp 5-28

ABSTRACT: An investigation of a 3-motor tape-transport mechanism is presented. The objectives of the investigation included finding the influence of various components of the mechanism upon the disturbing forces that cause tape-speed fluctuations at the magnetic heads; another objective was to develop methods of designing such mechanisms. The mechanism is presented as a set of progressively-moving masses connected by an elastic magnetic tape; the masses are acted upon by external forces and they work against mechanical resistances. Hook's law was considered applicable to the tape material. These simplifying assumptions were made: distributed tape elasticities were

Card 1/2

SOV/112-59-4-8185

replaced by a concentrated elasticity; all variable mechanical resistances are linearly dependent on the velocity of the corresponding mass. On these grounds, the mechanism is considered as a linear dynamic system with a finite number of the degrees of freedom. An instantaneous condition of this system is characterized by the translation of tape points rigidly connected with the modified masses and their velocities. An analysis of perturbing forces that cause tape-velocity fluctuations due to eccentricity of driven and driving members is made. A complete electrical analog of the mechanism was set up. The relation between the degree of stabilization of the tape velocity and the electric-analog elements was established; on this basis, the velocity stabilization was connected with the structural parameters of the mechanism. The mechanism design procedure is outlined.

G.S.V.

Card 2/2

PUSSET, L.A.

Evaluating the irregularity of tape motion in tape-winders.

Trudy Inst.mash.Sen.po teor.mash.18 no.69:52-70 '58.

(MIRA 12:5)

(Mape recording)

AUTHOR:

Pusset L. A. (Moscow)

103-19-6-6/13

TITLE:

Speed Control of a Synchronous Reactive Motor in Systems With Exact Magnetic Recording (O regulirovanii skorosti sinkhronnogo reaktivnogo dvigatelya v sistemakh tochnoy magnitnoy zapisi)

PERIODICAL:

Avtomatika i telemekhanika, 1958, Vol 19, Nr 6,

pp 574 - 581 (USSR)

ABSTRACT:

The stability of a system of automatic speed control in synchronous motors is investigated here and some recommendations concerning the selection of the parameters of this system are given. As far as almost exclusively reactive synchronous motors are used in magnetic recording devices the statements refer to this type of motor. The condition for the stability of the control process in the case of the use of a phase-sensitive element of the electronic and the electromechanical type is derived. It is assumed that changes in scale with respect to time as a consequence of unequal band-deformation take place so slowly that the motor remains synchronous during the entire control process. With the taking into account of all data customary in such investigations equation (1) for the rotor motion is written

Card 1/2

Speed Control of a Synchronous Reactive Motor in Systems 103-19-6-6/13 With Exact Magnetic Recording

down. On the assumption that the control system is linear and that the changes in scale with respect to time along the band take place sinusoidally formula (2) is written down. The set of equations (7) is derived and it is shown that a periodic solution of the system (6) which becomes identically equal to zero in the case of μ = 0 exists. The stability conditions for the solution are found. It is shown that the condition for the existence of an asymptotic stability of the periodic solution of the system (7) in the case of sufficiently small μ is the presence of negative real parts in all roots of the fundamental equation (8) .-The system used abroad for exact magnetic recording on a non-.perforated band (as phase-sensitive element) is described .- At the end the advantages of the use of an electromechanical phase--sensitive element instead of a simple circuit diagram of a phase-discriminator are shown. There are 3 figures and 7 references, 3 of which are Soviet.

SUBMITTED:

March 9, 1957

Card 2/2

1. Synchro motors--Control systems

,	JSSR/Physics - Diffraction	Aug 50	
,	JSSR/Physics - Diffraction	Aug 50	
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	'Diffraction of Homocentric Ray," L.	. A. Pusset	
	Pusset gives rigorous solution of star ray near the focus for any wave light field near focus is complete given distribution of intensity and contour of illuminated part of sphelarge radius described from center 7 Jan 50.	ubject problem for ength. Shows that by determined by polarization on the fufficiently	
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ARUOLD, N.R.; APOLIOTOVA, L.P., red.; VANIBOYF, V.S., red.; VASILEVSETY, D.P., red.; VROBLEVSETY, A.A., rd.; GRIBEOVA, G.L., red.; GRIGORASH, G.L., red.; MAZIENIET, B.Ya., rd.; PAZKIOTEERO, V.I., red.; MISSET, L.A., red.; PETRET, Ye.I., red.; ROZERIAT, U.A., red.; MAKITEL, F.T., red.

[Note in horse for some recording memoriatus] Magnituse goloviti dlia apparatuse confocusion. Morbes, 1858. 153 p. (Moskva. Vsesoiuznyi nepohac-isel dovotalizati inchirat syntocapisi. Trudy, no.3).

(MIRA 12:b)

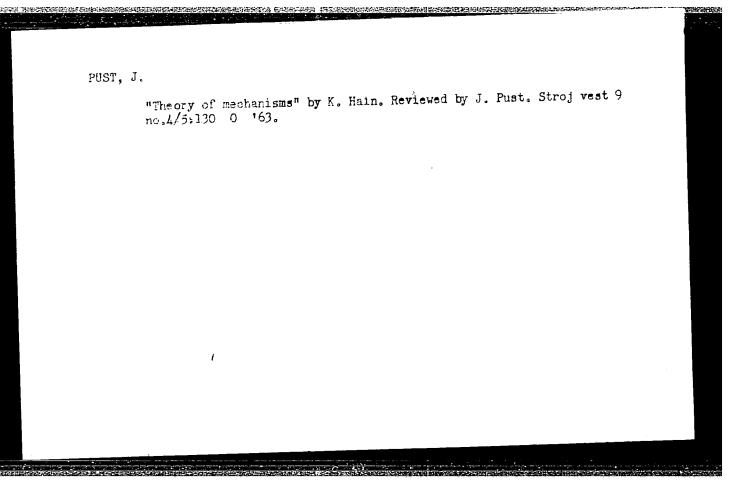
(Notable recorders and recording—Equipment and supplies)
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PARFENT 'YEV, Andrey Ivanovich; PISSET Lay Alckseverich; MARSOV, S.V., redaktor; AKHLAMOV, S.N., tekhnicheskiy redaktor.

[Physical principles of magnetic sound recording] Fizicheskie osnovy magnituoi zapisi zvuka. Moskva, Gos.izd-vo tekhniko-teoret. (MIRA 10:11) lit-ry, 1957. 323 p. (Magnetic recorders and recording)

CERNIGOJ, B.; SELJAK, Z.; NOVAK, P.; PUST, J.; MUREN, H.; OPRESNIK, M.; KUHELJ, A.; HLEBANJA, J.; KRUSIC, B.; POVSE, R.; KRAUT, B.; PROSENC, V.; PRELCG, E.

Book reviews. Stroj vest 10 no.6:176-182 D '64.

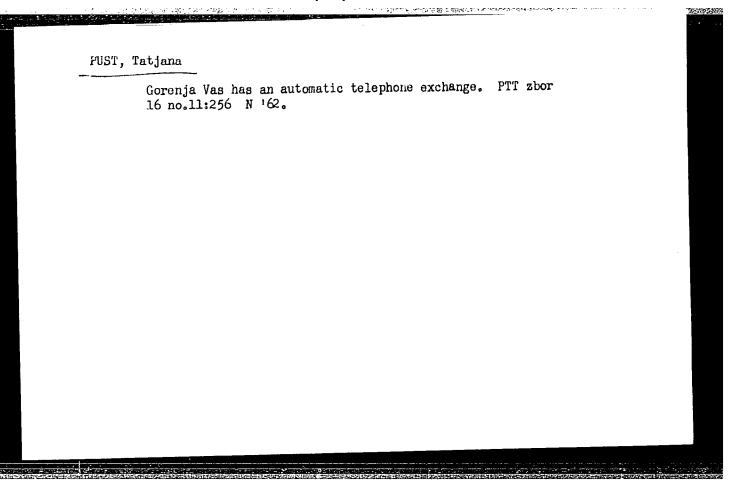


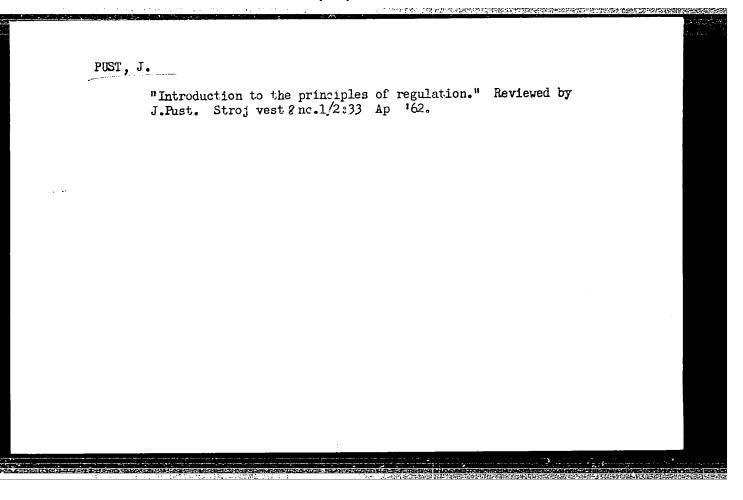
PUST, L.

L. Pust, "The Influence of Non-Linear Spring Characteristics on the Vibrations of Machine Foundations."

paper presented at the 2nd All-Union Conf. on Fundamental Problems in the Theory of Machines and Machanisms, Misson, USSR, 24-28 March 1958.

Nonthly list of east European Accessions, (EVAL., Ed. Vol. 4, no. 10, Oct. 1955, Uncl.





PUST, Ladislav, inz., 6.8c.

Effect of gyroscopic moments on the rolling of barrel-shaped rollers in roller bearings. Stroj cas 12 no.6:348-354 '61.

1. Ustav pro vyzkum stroju Ceskoslovenske akademie ved, Praha.

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	E: Library of Congress (TJ181.V8 1958)	4	andidate of Technical Sciences. in a Torsionally Oscillating Electro- ud its Simulation	Ad-	Pust, L., Candidate of Technical Sciences (Frague). Effect Of the Honitrear Characteristics of Springs on the Vib- ration of Machine Foundations. 203		of Technical Science. Problems in Engines	. The	fessor.	•	Kokhernikov, S. N., Corresponding Momber of the Academy of Sciences Uncainakaya San, and va. M. Raskin, Candidate of Technical Sciences. Investigation of a Vibratory-Input Mechanism	COVENAOB: This collection consists of reports presented at the All-Union Conference on Problems in the Theory of Manhines and Mechanisms held in Moscow in 1958. The respects discuss several problems of the dynamic deskin of complex mechanical systems. No personalities are manticled. References accompany most of the Articles.	PURPOSE: This collection of articles is intended for engineers, designers, workers at scientific research institutes, and instructors at schools of higher technical education.	Ed.: L. V. Barmenova, Candidate of Technical Sciences: Finnging Ed. for General Technical Literature and Litera- ture on Transport Machine Building (Manhgiz) A. P. Kozlov, Engineer; Tech. Ed.: B. I. Model'	Reard: I. I. Artobolevskiy (Resp. Ed.) Artobolevskiy, Doctor of Technical Science, G. G. Baranov, Doctor of Technical Science, C. G. Baranov, Doctor of Technical Sciences as the Company of Technical Sciences as the Company of Technical Sciences and Company of Technical Sciences (Ly.) Loctor of Technical Sciences, Cy.) Loctor of Technical Sciences, Profes	Dinamika mashin; sbornik statey (Dynamics of Machines; Collec- tion of Articles) Moscov, Mashgiz, 1960, 240 p. (Its: Trudy) Errata slip inserted, 3,000 copies printed.	Vsesoyuznoye soveshchaniye po osnovnym problemam teorii mashin i mekhanizmov. 2d, Moscow, 1958	BOOK EXPLOITATION	

L 20700-65 ASD(a)-5/ASD(f)-3/RAEM(a)/ESD(c)/RAEM(i)/ESD(gs)

ACCESSION NR: AR4047550

S/0124/64/000/008/A020/A020

SOURCE: Ref. zh. Mekhanika, Abs. 8A120

AUTHOR: Pust, L.

TITLE: Transition through the resonance region in mechanical oscillating systems with allowance for the effect of the vibrator

CITED SOURCE: Tr. Mezhdunar. simpoziuma po nelineyn. kolebaniyam, 1961, T.3. Kiyev, AN USSR, 1963, 398-408

TOPIC TAGS: oscillator, mechanical vibration, resonance, transient vibration mode, nonlinear damping

TRANSLATION: A study is made of transient modes in the transition through the resonance region for systems having a single degree of freedom with nonlinearity caused by the properties of the vibrator, or which contain a nonlinear spring and damping, or both together. The method of investigation presupposes small changes in the amplitude or phase angle as a function of frequency in comparison with the same changes under conditions of steady-state resonance. In the analysis of the transients in the oscillating systems,

Card 1/2

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ACCESSION NR: AR4047550		7
the author succeeds in establ	lishing with relative simplicity the interrelation between the vibrator mom	een ont
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point (i.e., the energy feed a	system), suggestions are given on the speed with which	the
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transition through the mulvio	istics of the resonance amplitude and phase curves.	
A.R. Rokhov		
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L 18359-65 ACCESSION NR: AT4049212

P/2519/64/000/005/0178/0192

AUTHOR: Pust, L. (Prague)

341

TITLE: The effect of nonlinear damping on the form of the resonance curves of a system with many degrees of freedom

SOURCE: Polska Akademia Nauk. Instytut Podstawowych Problemow Techniki. Zagadnienia drgan nieliniowych, no. 5, 1964. Druga Konferencja Drgan Nieliniowych (Second Conference on Nonlinear Vibrations), Warsaw, Sept. 18-21, 1962, 178-192

TOPIC TAGS: vibrating system, nonlinear damping, resonance curve, nonlinear elastic force, two mass system

ABSTRACT: The effect of nonlinear damping and nonlinear elastic force on the form of the resonance curves of a system with many degrees of freedom is studied in the first approximation. A detailed analysis is made of a two-mass system including a nonlinear element which can be replaced by a nonlinear spring and a nonlinear absorber. The system is described by the following equations of motion:

Card 1/3

L 18359-65 ACCESSION NR: AT4049212

> $m_1\ddot{x}_1 + c_1x_1 - c_2x_2 - \epsilon f(x_2, \dot{x}_2) = P\cos\omega t,$ $m_2(\ddot{x}_1 + \ddot{x}_2) + c_2x_2 + \epsilon f(x_2, \dot{x}_2) = 0,$

Card 2/3

L 18359-65 ACCESSION NR: AT4049212

ASSOCIATION: Institut Mashinnogo Vedeniya, Chekhoslovatskaya Akademiya Nauk, Prague (Institute of Machine Sciences, Czechoslovak Academy of Sciences)

SUBMITTED: 01Sep62 ENCL: 00 SUB CODE: ME, EC

NO REF SOV: 002 OTHER: 004

Card 3/3

PUST, I., inz., CSc.

Model research of dynamic properties of machines. Stroj cas 15 no.5:394-412 *64

1. Institute of Thermomechanics, Gzechoslovak Academy of Sciences, Prague.

KOVESUIK, Jaroslav, akademik; FUST, ladislav

Machine lynamics in the period letween two scientific conferences. Vestnik CSAV 73 no. 1: 102-116 '64.

PUST, Ladislav, Ing., C.Sc.

Friction forces and deformations at axial sliding of a roller. Acta techn Cz 6 no.2:162-185 '61. (EEAI 10:6)

1. Tschechoslowakische Akademie der Wissenschaften, Praha. (Friction) (Deformations (Mechanics)) (Strains and stresses) (Shear (Mechanics)) (Elasticity)

PUST, Ladislav, inz., C.Sc.

Transition of resonance curves in a damped several-degrees-of-freedom system. Stroj cas 14 no.3:230-241 163.

1. Ustav pro vyzkum stroju, Ceskoslovenska akademie ved, Praha.

PUST, L.

Effect of the properties of a source of the alternating force on oscillations of mechanical systems. I_n Russian. p. 428

APLIKACE MATEMATIKY. (Ceskoslovenska akademie ved. Matematicky ustav) Preha, Czechoslovakia, Vol. 3, no. 6, 1958

Monthly List of East European Accessions (EEAI), LC, Vol. 8, no. 11, Nov. 1959 Uncl.

2/041/61/000/006/002/002 E016/E935

Sciences AUTHOR:

1

Pust, Ladislay, Engineer, Candidate of Influence of gyroscopic moments on rollers in the

barrel-type roller bearings TITLE:

Strojnícky časopi: no.,6, 1961, 348-354 With increasing rotational speeds attention must be FEFIODICAL:

With increasing rotational speeds attention must be Whilst at paid to the influence of dynamic forces on the rollers. The hearing from the hearing from the consider the hearing from the parties of the consider the hearing from the consider the consideration that the consideration the consideration the consideration that the consideration the consideration the consideration that the consideration the consideration that t pald to the influence of dynamic forces on the rullers. Whilest a lower speeds it is quite sufficient to consider the bearing the point of view of binematics and external forces only at Lower speeds it is quite sufficient to consider the bearing to the point of view of kinematics and external forces has been been as a sufficient to consider the bearing the b

the point of view of kinematics and external forces only, at higher speeds internal dynamic forces can no longer be ignored. nigner speeds internal dynamic lorces can no longer be Legiored tend tend Besides centrifugal forces there are gyroscopic moments which the to that of the to that the rollers so that their axis is parallel to that of the besides centrilugal lorces there are gyroscopic moments which the to that of the to tilt the rollers so that their axis is parallel to that of the the total to the line conditions increased friction and the chaft. the rollers so that their axis is parallel to the one and increased friction and Unfavourable rolling conditions, The author considers the ting of the bearing Will result. overheating of the bearing will result. The author considers the type of bearing with the least frictional loss, i.e. in which type of bearing with the least contact with each race in harmalled rollers have only a point contact. type of bearing with the least frictional loss, i.e. in which the barrelled rollers have only a point contact with each race. In the analysis which follows he derives ontimum design conditions USTRELLED TOLLETS have only a point contact with each race. In the analysis which follows he derives optimum design conditions in the analysis which follows he derives optimum design conditions in the analysis which follows he derives optimum design conditions in the analysis which follows he derives optimum design conditions in the analysis which follows he derives optimum design conditions in the analysis which follows he derives optimum design conditions in the analysis which follows he derives optimum design conditions in the analysis which follows he derives optimum design conditions in the analysis which follows he derives optimum design conditions in the analysis which follows he derives optimum design conditions in the analysis which follows he derives optimum design conditions in the analysis which follows he derives optimum design conditions in the analysis which follows he derives optimum design conditions in the analysis which follows he derives optimum design conditions are also as a condition of the analysis which is a condition of the analysis which is a condition of the analysis which is a condition of the analysis of the analysis which is a condition of the analysis which is a condition of the analysis of the analysis which is a condition of the analysis of overheating of the bearing will result.

Influence of gyroscopic ...

%/041/61/000/006/002/002 E016/E955

order to achieve correct rolling action for both cases considered, i.e. when either the outer or the inner race is rotating whilst the other is stationary. In the geometrical analysis the roller and the races are replaced with conical surfaces which roll over each other without slip. These surfaces pass through the points of contact between the rollers and the races. Expressions for the speed of roller around its own axis, the speeds of the roller relative to the outer and inner races and the speed of the roller axis around the axis of the shaft are thus obtained. are in terms of the speeds of the outer and inner races and of the geometrical shape of the bearing defined by relevant angles. The author then derives an expression for the arm of the resulting moment acting on the roller, caused by the centrifugal and the gyroscopic moment. This expression is a general one with regard to the shape of the rollers and again involves only the rotational speeds of outer and inner races together with the parameters defining the geometrical shape and arrangement of the bearing. The arm of the moment, acting on the roller and due to the internal

Card 2/4

influence of gyroscopic ...

3/041/61/000/006/002/002 E016/E935

dynamic forces, is then given in a simplified form for the two cases considered, i.e. when the outer or inner race is rotating whilst the other is stationary. On the basis of the above it is shown that, for bearings within the normal geometrical range, the arm of the moment is effectively different for these two cases. Therefore to obtain correct and unhindered rolling action, bearings in the two cases must have a different design arrangement. Conditions required and necessary to obtain the equilibrium of external and internal forces are then derived and discussed. The author comes to the conclusion that the optimum design conditions for correct rolling action can be achieved, in the case when the inner race is rotating, by using non-symmetrical barrelled rollers with the centre of gravity appreciably removed from the greatest cross-section. In the case when the outer race is rotating the barrelled rollers should be symmetrical. Although all the

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Cord 3/4

Influence of gyroscopic ...

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2/041/61/000/006/002/002 E016/E935

conditions may not be entirely satisfied it is possible by this method to get very near to the optimum. There are 4 figures and 6 Soviet-bloc references.

ASSOCIATION: Ústav pro výzkum strojů Československé akademie věd,

(Institute for Machinery Research, Czechoslovak

Academy of Sciences, Prague)

SUBMITTED: April 18, 1961

Card 4/4

PUST, L., inz., C.Sc.

The 2nd National Conference on Machinery Dynamics. Stroj cas 13 no.2:205-207 '62.

PUST, Ladislav, inz.

Theory of a beam vibration pick-up. Stroj cas 13 no.3:232-243
162.

1. Ustav pro vyzkum stroju, Ceskoslovenska akademie ved,
Praha.

FUST, Ladislav

Mechanics of deformations at high forming rate. Vestnik CSAV
73 no.3:489-490 164.

SANCI, Ceratanin, cureagu, 1266 (use...gm. o tag. 1266 (1226 access); FRSTAI, Aurel, coreas.; FRSTAI, Aurel, coreas.; FRSTAI, Farel, coreas.; FRSTAI, Farel, coreas.; FRSTAI, FRSTAI, farel, coreas.; FRSTAI, coreas.; FRSTAI, farel, coreas.; FRSTAI, farel, coreas.; FRSTAI, coreas.; FRSTAI

MISFLISON, L.A.; PUSTILINIK, A.I.; SOKOLOVA, T.E. Orthobaric densities and critical parameters of niobium and tantalum pentachlorides. Zhur. neorg. khim. 9 no.5:

(MIRA 17:9) 1049-1052 My '64.

MUSAYLV, A. .. , garnyy inza.; PUSTOVALOV, A. I., gornyy inzh.; FEALKEN, V. H., gornyy inzh.

Purification of polluted mine air with a multiflow cyclone. Gor. phar. no.7:68-69 Jl 164. (NLA 17:10)

1. Zyryenovakiy svintsovyy kombinat.

BEINAYEVSKIY, N.A., red.; ALI-ZADE, A.A., red.; ALIYEV, M.M., red.;

BAKIROV, A.A., red.; BELOUSOV, V.V., red.; BEUS, A.A., red.;

BOGDANOV, A.A., red.; BORISOV, A.A., red.; BRENNER, M.M.,

red.; DYUKOV, A.I., red.; YERSHOV, A.D., red.; ZARIDZE, G.M.,

red.; KALUGIN, A.S., red.; KOSOV, B.M., red.; KOPTEV
DVORNIKOV, V.S., red.; KOTLYAR, V.N., red.; LUGOV, S.F., red.;

MAGAK'YAN, I.G., red.; MARINOV, N.A., red.; MARKOVSKIY, A.P.,

red.; MALINOVSKIY, F.M., red.; PUSTOVALOV, L.V., red.; SATPAYEV,

K.I., red.; SEMENENKO, N.P., red.; TYZHNOV, A.V., red.;

KHRUSHCHOV, N.A., red.; SHCHEGOLEV, D.I., red.; YARMOLYUK, V.A.,

red.

[Materials on regional tectonics of the U.S.S.R.] Materialy poregional noi tektonike SSSR. Moskva, Izd-vo "Nedra," 1964. 193 p. (MIRA 17:4)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy geologicheskiy komitet.

PUST, Tatjana

The new post office building is put in operation at Radovljica.

PTT zbor 15 no.12:225-226 D '61.

PUST, Tatjana

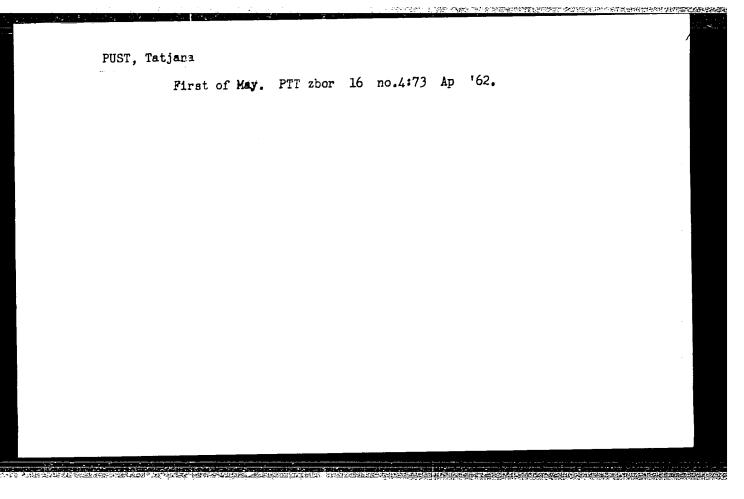
The post, telegraph, and telephone services of Yugoslavia along the new roads. PTT zbor 16 no.1/2:17-18 F 162.

PUST, Tatjana

The third meeting of the Administrative Committee, Community of the Post, Telegraph, and Telephone Enterprises of Slovenia. PTT zbor 16 no.1/2:18-24 F *62.

PUST, Tatjana

We have elected the Council of Working Collective in the Community of the Post, Telegraph, and Telephone Enterprises of Ljubljana. PTT zbor 16 no.3:62-63 Mr 162.

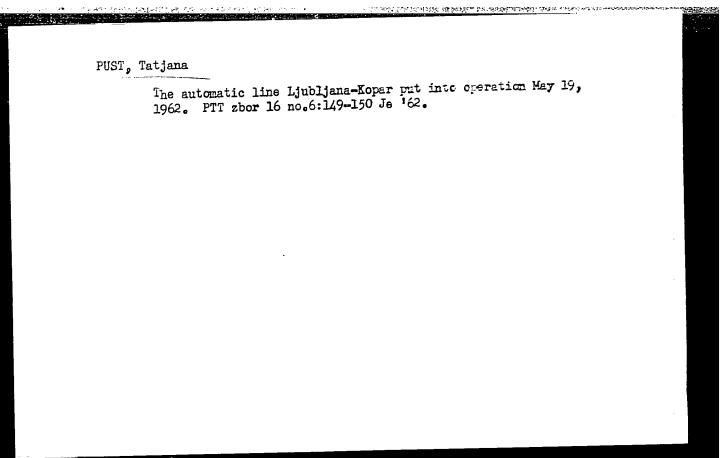


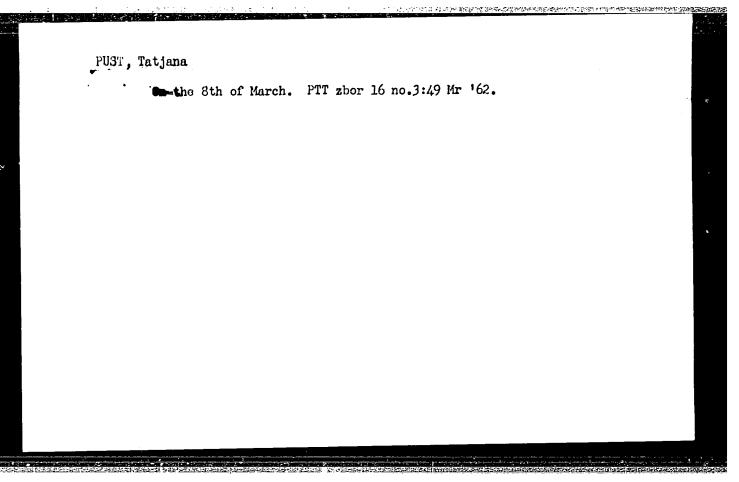
FUST, Ta	the most telegraph, and telephone
	Some notes on the vacations of the post, telegraph, and telephone employees. PTT zbor 16 no.5:123-126 My 62.
	•·

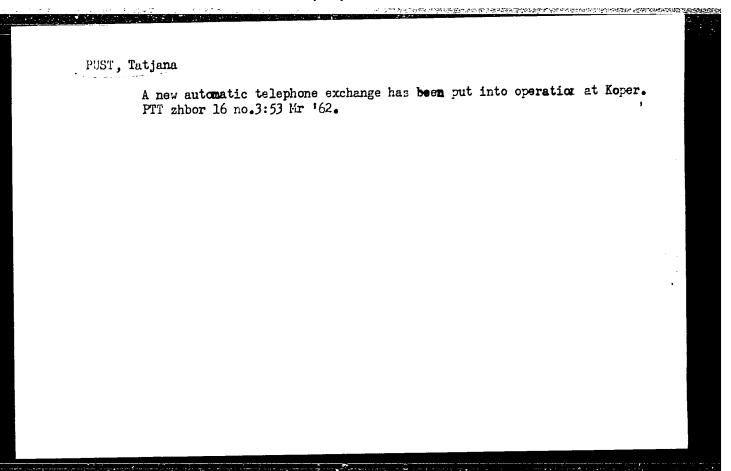
PUST,	Tatjana	
	Pomurje, also, is included in the system of modern postal, telegraph, and telephone communications. PIT zbor 16 no.12:279-280 D '62.	
		·

PUST, Tatjana

Dolenjska has the automatic telephone exchange. PIT zbor 16 no.12: 282-285 D '62.







FUSTAI, A.

The cement workers in Turda can work much better.

F. 2, (Constructorul. Vol. 9, no. 395, Aug. 1957, Pucuresti, Rumania)

Contally Indea of Fast Furo: ean Accessions (EFAI) LC. Vol. 7, no. 2, February 1958

GREBENYUK, V.A.; PUSTALOV, A.I.; KOROGOD, G.I.; TAYMAYEV, Zh.T.

Purifying dust-laden air by an aqueous-viscous chip filter. Trudy
Alt. GMNII AN Kazakh. SSR 15:59-63 '63. (MIRA 17:3)

ULUKBEKOV, O.K.; BEKTYABAYEV, A.D.; PUSTOVALOV, A.I.; NURGALIYEV, T.

Studying the technological and economic indices of parallel and fan boreholes in systems with ore breaking by levels. Trudy Alt. GMNII AN Kazakh. SSR 15:203-207 '63. (MIRA 17:3)

MARMUREANU, V.; PUSTAN, I.

The quality, problem No. 1. Constr Buc 14 no. 673: 2; 1 December 1962.

- 1. Inginer-sef al Fabricii "Zorile noi", Piatra Neamt (for Marmureanu).
- 2. Maistru de productie al Fabricii "Zorile noi", Piatra Neamt (for Pustan.).

K-5

PHSTELNIK

POLAND/Chemical Technology - Chemical Products and Their

Applications. Cellulose and Cellulose Products.

Faper.

: Ref Zhur - Khimiya, No 2, 1958, 6596 Abs Jour

: Pustelnik, Surewicz Author

Inst : Investigating the Development of the Technology of the Title

Production of Viscose Sulfate Cellulose from Spruce Wood.

: Prace Inst. celul.-papiern., 1957, 6, No 1, 1-15 Crig Pub

: The feasibility of producing cellulose (C) containing Abstract

93-95% d-cellulose by subjecting the C to prehydrolysis with acids or steam, or to alkali refining by the cold process is shown. The filterability of the solution of viscose derived from the indicated C will be lower than the filterability of solutions of viscose derived from sulfite C. It is pointed out that, at the presnet time, there are no processes for producing sulfate viscose C

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' POLAND/Chemical Technology - Chemical Products and Their Applications. Cellulose and Cellulose Products,

Paper.

: Ref Zhur - Khimiya, No 2, 1958, 6596 Abs Jour

which would satisfy modern technical and economical

requirements.

Card 2/2

Pastelnik, C.

661.728.3 : 676.149 : 633.521

3872

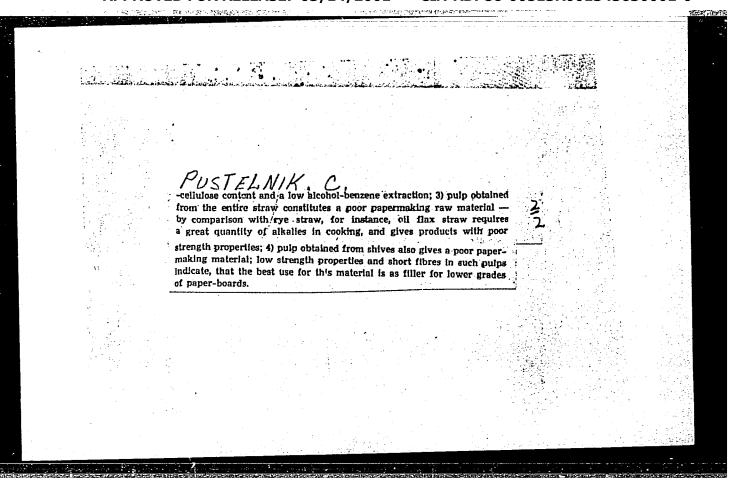
Pustelnik C., Winczakiewicz A. Investigations Concerning the Suitability

Of Oil Flax Straw as Papermaking Raw Material.

of Oil Flax Straw as Papermaking Raw Material.

"Badania nad przydatnością słomy Inu oleistego jako surowca pa"Badania nad przydatnością słomy Inu oleistego jako surowca pa"Badania" przydatnością słomy Inu oleistego jako surowca pa"Badania" przydat

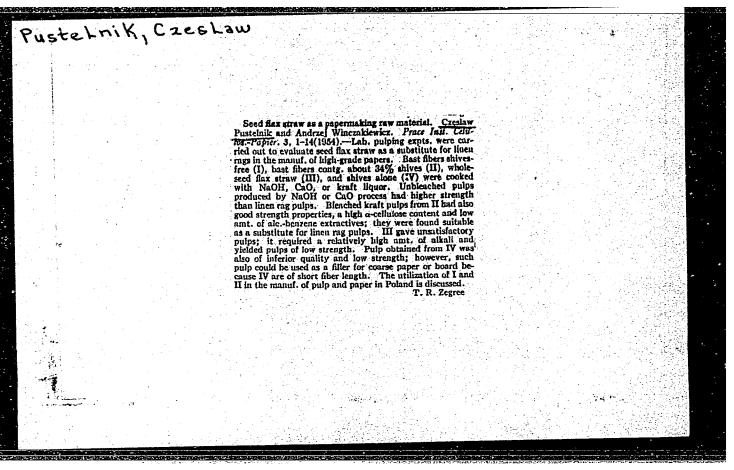
In order to find fibrous raw materials in substitution for linch rags used in high grade papers and tissue papers, detailed investigations were made over the papermaking possibilities of the seed flax straw. As starting material in the investigations, there were used successively: 1) pure bast fibres from oil flax straw; 2) bast fibres containing about 1) pure bast fibres from oil flax straw; 4) shives. As a result of laboratory scale experiments, including obtaining cellulose paper-making half stuff and cellulose pulps from bast fibres, shives and the entire straw, the following conclusions were reached: 1) pure bast fibres and straw, the following conclusions were reached: 1) pure bast fibres and material for paper-bast fibres containing shives are a suitable raw material for paper-bast fibres containing shives are a suitable raw materials has greater strength properties than the half stuff from linen rags; 2) sulphate pulp obtained from bast fibres containing shives can be used as a substitute for papermaking half stuff; this sulphate pulp has greater strength properties than the half stuff from linen rags, a high alphater strength properties than the half stuff from linen rags, a high alphater

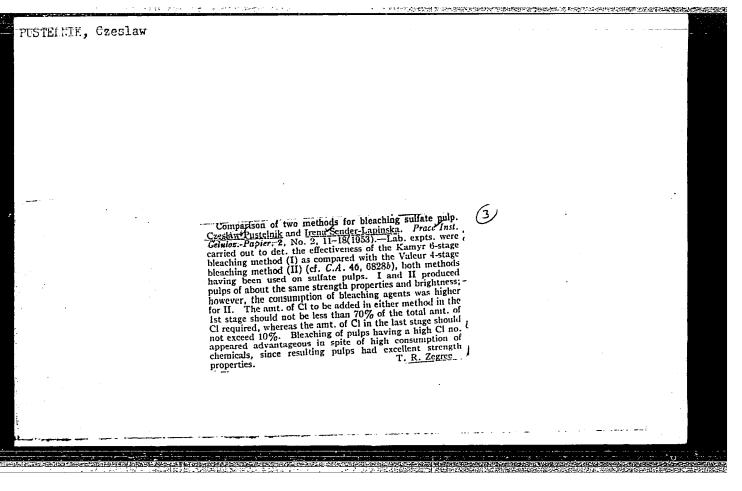


PUSTELNIK, Czesław, doc.

Theoretical fundamentals of the screening process. Przegl papier 21 no.3:75-78 Mr '65.

1. Pulp and Paper Institute, Lodz.





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H-33 PUSTELNIK, CZESLAW POLAND/Chemical Technology. Chemical Products and Their Application. Cellulose and Its Production.

Abs Jour: Ref. Zhur-Khimiya, No 11, 1958, 38305.

: Pustelnik Czeslaw, Protekta Jerzy

The Extraction of Cellulose from Straw by the Aronovskiy : Not ciren. Author

Medianical -Chemical Method. Inst

Orig Pub: Prece Inst celul-papiern, 1957, 6, No 1, 16-30. Title

Abstract: Under laboratory conditions, the influence of various factors during the boiling of straw by the Aronovskiy method was investigated: the rise of the hydraulic modulus, the time and temperature of boiling, the quantity of active NEOH and the sulfidization of the cooking alkali as well as the recycling of the coarse alkali dis-

: 1/5 Card

POLAND/Chemical Technology. Chemical Products and Their Application. Cellulose and Its Production. Paper.

H-33

Abs Jour: Ref. Zhur-Khimiya, No 11, 1958, 38305.

charge and of the mechanical property of cellulose (C); the degree of delignification and the quantity of waste products during the screening of the mass. The optimum conditions of the boiling are the quantity of active alkali (in % of the dry mass of the straw) 10-12%; sulfidization of the alkali \geq 15%; boiling temperature 88-93°; length of boiling 30-60 minutes. A possibility has been shown, in pilot plant conditions, of decreasing the hydraulic modulus from 15 to 9 without deterioration of themschanical properties of C. During the manufacture of wrapping paper (WP) and pasteboard (P), an increase of up to

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POLAND/Chemical Technology. Chemical Products and Their Application. Cellulose and Its Production.

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Paper.

Abs Jour: Ref. Zhur-Khimiya, No 11, 1958, 38305.

Bleached C, resulting in "gidropal'pere", shows the advantages of the Aronovskiy over the usual method when its high output is taken into consideration. The mechanical-chemical Aronovskiy method is characterized by a high output of C from aparatus of 1 m³ capacity in comparison with the process of kettle boiling. Included among the advantages is the great simplicity of the equipment. A relative disadvantage of the Aronovskiy method is the greater need for steam in comparison with the usual method and the Celdecor-Pomilio method and the greater need for energy and chloride in comparison with the process of kettle boiling. The disadvantages mentioned are compensated

Card : 4/5

, POLAND/Chemical Technology. Chemical Products and Their Application. Cellulose and Its Production.

H-33

Paper.

Abs Jour? Ref. Zhur-Khimiya, No 11, 1958, 38305.

for to a significant degree by the saving of raw material with the greater output of C.

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CIA-RDP86-00513R001343630001-0 "APPROVED FOR RELEASE: 03/14/2001

Tostelnik, Czeshaw

H - 33

POLAND/Chemical Technology. Chemical Products and Their

Application, Part 4. - Cellulose and Its Derivatives;

Parar.

Abs Jour: Reforat. Zhurnal Khimiya, No 10, 1958, 34663.

Author : Czenlaw Pustelnik.

: Not given. Inst

: Equipment for Hemicellulose Manufacturing. Title

Orig Pub: Przegl. papiern, 1957, 13, No 11, 330-344.

Abstract: The equipment necessary for hemicellulose manufacturing

is discussed. It is shown what equipment available at the existing cellulose factories can be used in the new

industry.

: 1/1 Card

31

H-33

POLAND/Chemical Technology - Chemical Products and Their

Application. Cellulose and Derivatives. Paper.

: Ref Zhur - Khimiya, No 8, 1958, 27251 Abs Jour

: Pustelnik Czeslaw, Bittmar Wojciech Author

: Institute of Cellulose and Paper. Inst

: Suitability of Some Annual Plants for the Paper Industry Title

: Prace Inst. celul.-papiern., 1953, 2, No 1, 29-34 Orig Pub

: Results of pulping (by the sulfite method) of a number Abstract

of annual plants (Papaver somniferum, Althaea rosea, Carthamus tinctorius, Ricinus communis, Camelina saliva, Althaea officianalis, Albanian reed) and mechanical

characteristics of the cellulose thus obtained before

and after beating.

Card 1/1

PUSTELNIN, CZ

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676.179.022.14(71)

Pustelnik Cz., Bittmar W. On the Usefulness, of Certain Annual Plants as Raw Material for the Paper Industry.

"O przydatności niektórych roślin jednorocznych dla przemysłu papierniczego". (Prace Inst. Cciuloz.-Papiern. No. I), Warszawa, 1953, PWT, 6 pp., 7 figs., 6 tabs.

The authors investigated the usefulness of the following annual plants for pulps manufacturing: Ricinus communis, Papaver somniforus, Camelina sativa, Althaea officinalis, Althaea rosea, Carthamus tinctorius and Albanian rush (Latin name unknown). After chemical analysis, the raw material was digested by the sulphate process, and in the case of Carthamus tinctorius by the neutral sodium sulphite process also. The results of cooking are shown in tables. The strength properties of pulps were determined before and after beating to 50°SR. The results of these investigations are shown in tables. The properties which the pulps were shown to possess indicate that the annual plants concerned could be useful in the papermaking and pulp industry. The best results were obtained with Albanian rush, Ricinus communis, Camelina sativa and Althaea officinalis.

POL.

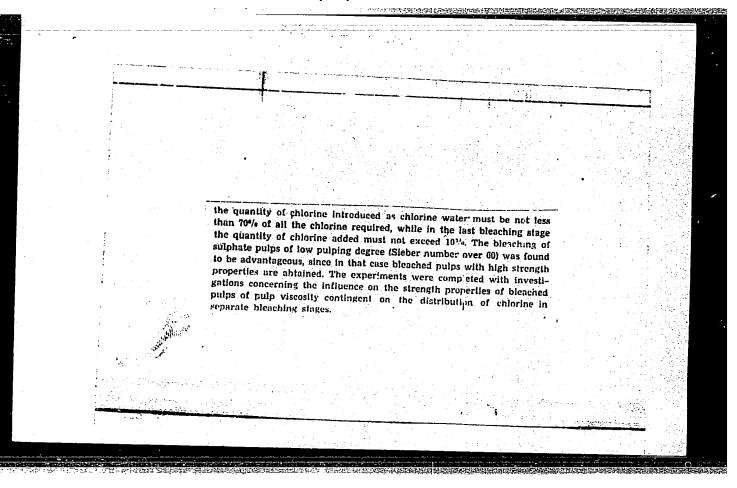
3208

676.1.062.14:76.1.023.1

Pustelnik C., Sender-Lapinska I. Attempts to Determine the Best Condiffers for Hierching Sulphate Papermaking Cellulose Pulps by Means of Chlerine Water and Solutions of Calcium Hypochtorite.

"Próby ustalenia opłymalnych warunków bielenia mas celulozowych siarczanowych papterniczych przy użyciu wody chlorowej i roztworów wapna chlorowanego". (Prace Inst. Celuloz.-Papiern. No. 2), Warszawa, 1853, PWT, 7 pp., 10 tabs.

The authors undertook comparative bleaching by applying two methods (four and six stage bleaching) of sulphate pulps containing varying amounts of lignin. In both cases, the influence of chlorine distribution, in separate stages of bleaching, on strength properties of cellulose pulps was investigated. It was found that both the methods of bleaching mentioned make it possible to obtain pulps with similar strength properties and degree of whiteness. The consumption of bleaching agents in the four stages method is higher than in the six stages method. Tests concerning the best distribution of chlorine showed that



PUSTELINIK, Czeslaw; CHOMIK, Zenon; STUPINSKA, Halina

Beechwood as raw material for Polish cellulose and paper industry. Przegl papier 19 no.12: 386-390 D'63.

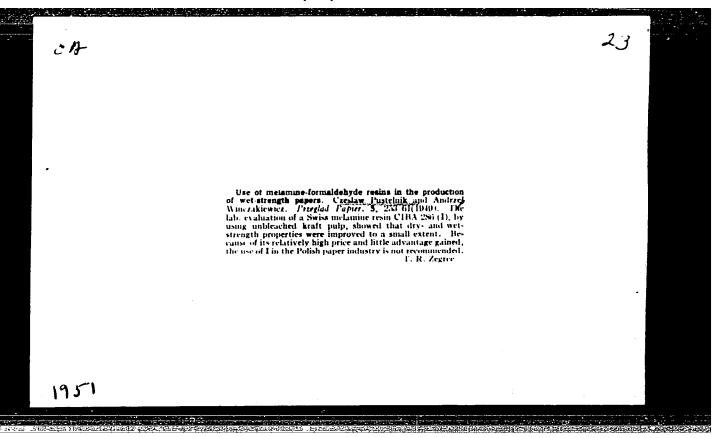
1. Instytut Celulozowo-Papierniczy, Lodz.

Foliand CA: A7:108:19

with WCJCIECH BITTMAR

"Evaluation of some annual plants for paper manufacture."

Prace Inst. Celuloz.-papier. 2, 29-34 (1953).



TANIEWSKI, M.; PUSTELNIK, D.

Polycondensation of mixtures of mono- and dicarboxylic acids with polyols containing merely -hydroxyl groups. Polimery tworz wielk 7 no.11:415-418 N '62.

1. Instytut Farb i Lakierow, Gliwice.

JANOWSKI, T. M.; GBURCZYK, J.; PUSTELNIK, J. (Krakow)

Preliminary studies on the influence of microclimate factors upon the fertility of bulls. Rocz nauk roln wet 70 no.1/4:366-367 '60. (EEAI 10:9)

(Bulls) (Fertility)

K-5

HUNGARY/Chemical Technology. Chemical Products and Their

Applications. Cellulose and Cellulose Products.

Paper.

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10

Abs Jour: Ref Zhur-Khimiya, 1958, No 1, 3276.

Author : Pustelnik, Protekta

Inst

: Mechanical and Chemical Method of Producing Cellu-Title

lose from Rye Straw.

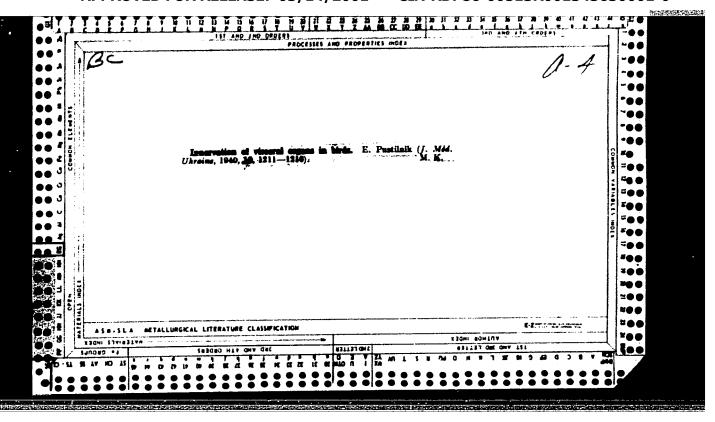
Orig Pub: Papiripar, 1957, 1, No 3-4, 41-51.

Abstract: The optimum conditions for cooking and bleaching wrapp-

ing paper which is made with 30% of added straw pulp obtained by the chemical and mechanical method in lieu of sulfate pine pulp, fulfills the technical specifications adopted in Poland. The mechanical and chemical sulfate method is cheaper than the Tsel'dekor-Pomilio method, but produces a lower grade of cellulose.

: 1/1 Card

CIA-RDP86-00513R001343630001-0" APPROVED FOR RELEASE: 03/14/2001



TSYLOV, Yu.A. (Moskva); KORPUSOV, G.V. (Moskva); PUSTIL'NIK, A.I. (Moskva) Density and viscosity of solutions in the system organic solvent rareearth metal nitrate solution. Izv. AN SSSR. Met. no.3:59-64 My-Je '65.

(MIRA 18:7)

AND A TO A CHARLES AN AREA WINDOWS AND A CHARLES AND A

NISEL'SON, L.A. (Moskva); PUSTIL'NIK, A.I. (Moskva); SOSHNIKOVA, L.A. (Moskva)

Separation of selenium from tellurium by distillation. Izv.
AN SSSR. Otd. tekh. nauk. Met. i gor. delo no.2:79-85 Mr-Ap '63.

(MIRA 16:10)

ACCESSION NR: AP4036963

s/0078/64/009/005/1049/1052

AUTHOR: Nisel'son, L. A.; Pustil'nik, A. I.; Sokolova, T. D.

TITIE: Orthobaric density and critical parameters of niobium and tantalum pentachlorides.

SOURCE: Zhurnal neorganicheskoy khimii, v. 9, no. 5, 1964, 1049-1052

TOPIC TAGS: niobium pentachloride, tantalum pentachloride, orthobaric density, critical parameter, critical density, critical pressure, critical temperature, niobium tantalum analysis, density temperature relationship, Berthelot equation, liquid vapor phase equilibrium, crystal liquid phase equilibrium

ABSTRACT: The orthobaric density of NbCl₅ and TaCl₅ throughout the liquid state and in the vapor state, and their critical parameters were determined (fig. 1). The densities of the liquid TaCl₅ and NbCl₅ and of their mixtures were measured precisely from their melting temperatures (216.2 and 204.2 C, respectively) to 300-320 C. The critical parameters for NbCl₅ were: critical temperature 534 C, density crit 0.65 gm/cm³, pressure p_{crit} to atmospheres; for TaCl₅ were: 494 C, 0.89 gm/cm³ and 43 atmospheres. Since the liquid-vapor phase and the crystal-

Card 1/3

ACCESSION NR: AP4036963

liquid phase equilibria in these pentachlorides are practically ideal and the density of their mixtures is additive, the density-temperature relationship can be used for rapid analysis of NbCl₅ and TaCl₅ in the absence of other impurities. The temperature can be determined within 0.2 degree, and density within 0.005 gm/cm³ with 1\$ accuracy. The Berthelot equation will give greater accuracy:

 $i/\rho = \frac{RT}{MP} \left[1 + \left\{ \frac{9T_{sp}(T^2 - 6T_{sp}^2)}{128 \cdot p_{sp} \cdot T^2} \right\} \cdot p \right]$

Orig. art. has: 1 equation, 4 tables and 1 figure.

ASSOCIATION: None

SUBMITTED: 14Mar63

DATE ACQ: 05Jun64

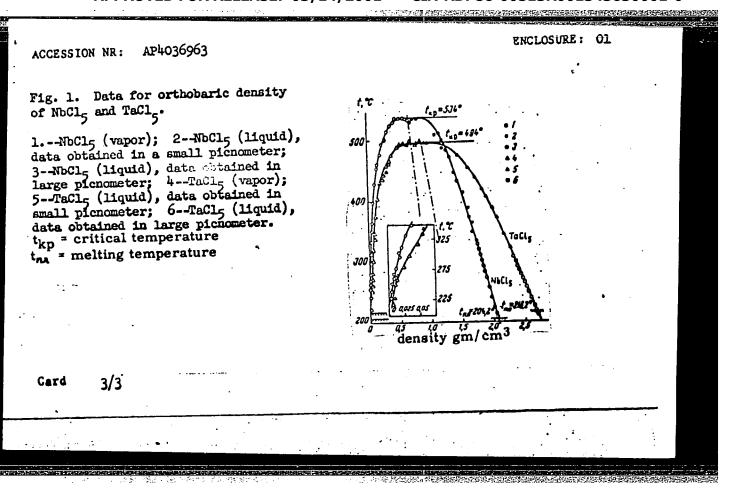
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EWP(q)/EWT(m)/BDS L 17126-63 RDW/JD/AB s/0279/63/000/002/0079/0085 ACCESSION NR: AP3000905 AUTHORS: Nisel'son, L. A.; Pustil'nik, A. I.; Soshnikova, L.A. (Moscow) Purifying selenium from tellurium by rectification SOURCE: A SSSR. Izv. otd. tekh. nauk. Ketallurgiya i gornoye delo, no. 2, 1963, TOPIC TAGS: rectification, purification, Se, Te, density, viscosity, surface tension ABSTRACT: The authors made their experiment because the common technique of obtaining Se (by <u>distillation</u>) is ineffective in eliminating certain elements that have comparable volatility (especially Te, Sb, and S). Because of complications in construction if rectification were carried on in a vacuum and because such properties as viscosity and surface tension are thus altered deleteriously, it appeared best to rectify Se at ordinary atmospheric pressure. The setup is illustrated in Fig. 1 (see Enclosure 1). The internal diameter of the column is 30-32 mm. The sieve plate has 40 openings 0.8 mm in diameter, formed ultrasonically. The distance between plates is 30-32 mm, and 10 plates are used in the column. To prevent congelation of the Se, the head of the apparatus is equipped with an electrical Card 1/3

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ACCESSION NR: AP3000905

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heating element. The thermally insulated jacket of the column, with its electrical heater, is made of glass tubing with asbestos insulation, and the jacket has a transparent window for observation. The temperature was measured in tests with an accuracy of 0.50 by a Chromel-Alumel thermocouple and a semiautomatic R2/10 potentiometer. In testing the equipment, rectification of Se suffered from the difficulty of maintaining normal conditions, resulting from unequal (impulsive) boiling of Se and from the very narrow range of operating flow rates into the column. The degree of purification obtained in the experiments proved to be substantially less than computed values indicated they should be. The authors conclude that this is due partly to the problem of maintaining steady conditions and partly to imperfections in the design of the column head. They are convinced the recification method has great promise for Se. Orig. art. hes: 4 figures and 6 tables.

ASSOCIATION: none

SUBLITTED: 06Aug62

DATE ACQ: 12Jun63

ENCL: 01

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L 18524-63 EPF(n)-2/EWP(q)/EWT(m)/BDS/ES(s)-2 AFFTC/ASD/SSD Pt-4/P	1-4	10 112	
ACCESSION NR: AP3002389 WW/JD/JG 8/0279/63/000/003/0110	/0110		
AUTHORS: Nisel'son, L. A.; Pustil'nik, A. I. (Moscow)	10		
TITLE: Density and viscosity of liquid niobium and tantalum pentachlorides	12		
SOURCE: AN SSSR. Izv. Otd. tekhnicheskikh nauk. Metallurgiya i gornoye delo no. 3, 1963, 110) ,	•	
TOPIC TAGS: niobium pentachloride, tantalum pentachloride		••	
ABSTRACT: Density (P) and viscosity (N) of liquid NbCls and TaCls have been dete	r-		
interest of the temperature interval of 300-3200. Each substance contained no mon	. .		
than 0.0% of impurities. Densities were determined in sealed quartz picnomete and temperatures were measured with both standard thermometers and thermocouple	78 .		
(temporations accompany was + 0.10). The results were corrected for the thermal			
expension of quartz and for the weights of vapors. Relative error in density 5 x 10-2, in viscosity it was 0.2. Viscosities were determined in a modifie	d		
Martin viscosimeter. Data were processed by the method of least squares. It	was		
established that: $\rho_{\text{NbCl}_{\bullet}} = 2.0737 - 3.115 \cdot 10^{-3} \cdot \Delta t + 3.58 \cdot 10^{-6} \cdot \Delta t^{3}$			
$\rho_{\text{TaCl}_s} = 2.6840 - 4.100 \cdot 10^{-3} \cdot \Delta t$			
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ACCESSION NR: AP3002389		Ċ		
·η _{NbCl}	$0.921 - 1.325 \cdot 10^{-9} \cdot \Delta t + 1.120 \cdot 10^{-6} \cdot \Delta t^{9} - 4.30 \cdot 10^{-7} \cdot \Delta t^{9}$			
η _{TaCl,} =	= $1.003 - 1.667 \cdot 10^{3} \cdot \Delta t + 1.8 \cdot 10^{-4} \cdot \Delta t^{3} - 8.455 \cdot 10^{-7} \cdot \Delta t^{3}$	•		
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Orig. art. has: 4 formul	as.	•		
ASSOCIATION: none	. •			
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NISEL'SON, L.A. (Moskva); PUSTIL'NIK, A.I. (Moskva)

Density and viscosity of liquid niobium and tantalum pentachlorides.

Izv. AN SSSR. Otd. tekh. nauk. Mat. 1 gor. delo no.3:110 My-Je

'63. (MIRA 16:7)

(Niobium chloride) (Tantalum chloride)

PUSTELNIK, Danuta; TANTEWSKI, Nichal

Maleic acid anhydride in the synthesis of alkyd resins.

Polimery tworz wielk 8 no. 11: 420-423 N :63.

1. Instytut Farb i Lakierow, Gliwice.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343630001-0"

THE STANDARD SERVED AND CHARLEST SERVED SERV

CHERNYAYEV, V.N.; PUSTIL'NIK, A.I.

Phase equilibrium in solutions of silicon tetraiodide and antimony triiodide. Izv.vys.ucheb.zav.; tsvet.met. 2 no.6: 147-153 '59. (MIRA 13:4)

1. Krasnoyarskiy institut tsvetnykh metallov, problemnaya laboratoriya chistykh metallov, metallicheskikh soyedineniy i poluprovodnikovykh materialov.

(Vapor-liquid equilibrium) (Antimony iodide)

(Silicon iodide)

MYSHLYAYEV, A.M.; PUSTIL'NIK, I.G.; MOROZ, L.I.

Discussing the contents and structure of the school physics course. Fiz. v shkole 23 no.5:40-45 S-0 '63. (MIRA 17:1)

- 1. Pedagogicheskiy institut, g. Karachayevsk (for Myshlyayev).
 2. 36-ya srednaya shkola, g. Sverdlovsk (for Pustil'nik).
 3. Institut vechernikh (smennykh) i zaochnykh shkol Akademii
- pedagogicheskikh nauk RSFSR, Leningrad (for Moroz).

CIA-RDP86-00513R001343630001-0" APPROVED FOR RELEASE: 03/14/2001

PUSTIL'NIK, I.G., inzh.

Automatic device for turning on water screens in mines. Bezop. truda v prom. 5 no.9:27-28 S '61. (MIRA 14:10)

1. Ural'skiy nauchno-issledovatel'skiy i proyektnyy institut, g. Sverdlovsk.

(Mine dusts--Safety measures)